



## INDIANA PROFESSIONAL STANDARDS BOARD

## MEMORANDUM

TO: Members, Indiana Professional Standards Board

FROM: Jane Boultinghouse, Chair, Standards Committee

DATE: June 19, 2002

RE: Revision of Standards for Teachers of Mathematics

As part of its charge, the Standards Committee reviewed the *Standards for Teachers of Mathematics* adopted by the Indiana Professional Standards Board on March 19, 1998. The review process involved both assuring alignment with the *Indiana's Academic Standards* adopted by the Indiana State Board of Education in the Summer of 2000, as well as, determining that the standards were in alignment with current recommendations from national organizations. To accomplish this task for the elementary and middle school grades, the committee identified the alignment for each area and an example of the documents produced is attached. For the high school courses, the committee involved a group of experienced high school teachers to determine the alignment for each course.

After reviewing all of the documentation, the committee determined that problem solving as a content area was not adequately addressed. Therefore, the committee suggested that the following language be added to the standards

Problem Solving- Using critical thinking teachers use what they have learned (concepts and existing data) to find out what they do not know and instruct students in this process. Teachers use mathematical inquiry including questioning techniques, discovery, reasoning process, identifying strategies, reflective process, analysis and justification, formulating the problem and moving from simple ideas to complex

and that an additional reference to Addendum A be added to Standard #4.

A revised document including these revisions is attached.

**Standards Committee Recommendation:**

The Standards Committee recommends approval of the revised *Standards for Teachers of Mathematics*.

**I**

**P**



**S**

**B**

---

INDIANA PROFESSIONAL STANDARDS BOARD

**Indiana Professional Standards Board Action:**

---

---

Attachments:

Example Working Document

Draft Standards

